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WHAT IS CLAIMED IS:

- 1. A data transfer device that transfers data, via a plurality of signal lines, comprising:
- a data transfer timing signal output device that outputs a timing signal for the data transfer, by changing a frequency of the timing signal randomly for each of the plurality of signal lines.
- 2. The data transfer device according to claim 1, wherein the data transfer timing signal output device randomly changes at least one of a data transfer start timing and a data transfer end timing.
- 3. The data transfer device according to claim 1, wherein a flat harness connects the data transfer device to another device to which the data is transferred.
- 4. A data transfer device that transfers data using a system clock, comprising:
- a transfer clock generating device that generates a transfer clock that determines a timing for the data transfer, based on the system clock; and a transfer clock changing device that randomly changes a frequency of the transfer clock generated by the transfer clock generating device.
- 5. The data transfer device according to claim 4, wherein the transfer clock changing device randomly changes at least one of a timing for the transfer clock to make a transition to a high level and a timing for the transfer clock to make a transition to a low level.
- 6. The data transfer device according to claim 4, wherein a flat harness connects the data transfer device to another device to which the data is transferred.
- 7. A data transfer device that transfers data using a system clock, comprising:
- a transfer clock generating device that generates a transfer clock that determines a timing for the data transfer, based on the system clock;
- a delayed transfer clock generating device that shifts the transfer clock generated by the transfer clock generating device by a predetermined amount, to generate a plurality of delayed transfer clocks; and
- a delayed transfer clock selecting device that randomly selects one of the delayed transfer clocks generated by the delayed transfer clock generating device;

wherein the data transfer device transfers the data in accordance with the delayed transfer clock selected by the delayed transfer clock selecting device.

- 8. The data transfer device according to claim 7, wherein a flat harness connects the data transfer device to another device to which the data is transferred.
- 9. A printing apparatus including a data transfer device that transfers print data to a print head, via a plurality of signal lines, comprising:

a data transfer timing signal output device that outputs a timing signal for the data transfer, by changing a frequency of the timing signal randomly for each of the plurality of signal lines

- 10. The printing apparatus according to claim 9, wherein the data transfer timing signal output device randomly changes at least one of a data transfer start timing and a data transfer end timing.
- 11. The printing apparatus according to claim 9, wherein a flat harness connects the data transfer device to the print head.
- 12. A printing apparatus including a data transfer device that transfers print data to a print head, using a system clock, comprising:

a transfer clock generating device that generates a transfer clock that determines a timing for print data transfer, based on the system clock; and

a transfer clock changing device that randomly changes a frequency of the transfer clock generated by the transfer clock generating device;

wherein the data transfer device transfers the print data to the print head, based on the transfer clock whose frequency is randomly changed by the transfer clock changing device.

- 13. The printing apparatus according to claim 12, wherein the transfer clock changing device randomly changes at least one of a timing for the transfer clock to make a transition to a high level and a timing for the transfer clock to make a transition to a low level.
- 14. The printing apparatus according to claim 12, wherein a flat harness connects the data transfer device to the print head.
- 15. A printing apparatus including a data transfer device that transfers print data to a print head, using a system clock, comprising:

a transfer clock generating device that generates a transfer clock that determines a timing for the data transfer, based on the system clock;

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a delayed transfer clock generating device that shifts the transfer clock generated by the transfer clock generating device by a predetermined amount, to generate a plurality of delayed transfer clocks; and

a delayed transfer clock selecting device that randomly selects one of the delayed transfer clocks generated by the delayed transfer clock generating device; wherein the data transfer device transfers the print data to the print head in accordance with the delayed transfer clock selected by the delayed transfer clock selecting device.

- 16. The printing apparatus according to claim 15, wherein a flat harness connects the data transfer device to the print head.
- 17. A method of transferring data, comprising:
 generating a transfer clock that determines a timing for the data transfer;

shifting the transfer clock by a predetermined amount to generate a plurality of delayed transfer clocks;

randomly selecting one of the delayed transfer clocks; and transferring the data in accordance with the randomly selected delayed transfer clock.